

**NNK13483899R – Revitalize Medium Voltage, Industrial and Payload
Process Areas, PCN: 98860**

Below is a list of questions and their responses from the original solicitation.

1. REFERENCE: N/A

QUESTION: Will we be allowed to access & work in manholes with live cables (other circuits) in the man holes?

RESPONSE: Yes, and reference solicitation Project Specific Requirement J-B-35 POWER MANHOLE ENTRY SAFETY REQUIREMENTS.

2. REFERENCE: N/A

QUESTION: Will NASA perform all switching?

RESPONSE: NASA will perform all the switching on energized systems. Also, reference Project Specific Requirement J-B-1 UTILITY OUTAGE, ENERGIZED ELECTRICAL WORK, ELECTRICAL HAZARD ANALYSIS, AND EXCAVATION PERMITS.

3. REFERENCE: Drawing E-002

QUESTION: Specific Note A, “ASSUME SPLICES ARE REQUIRED IN ALL MANHOLES FOR BOTH NEW CABLES AND CONNECTIONS TO EXISTING CABLE.” Are there any exceptions to this statement?

RESPONSE: For bidding purposes there are no exceptions. Indicate on the cable pulling plan where splices are planned to be installed.

4. REFERENCE: Drawing E-415

QUESTION: Specific Note J is not shown on the Site Plan. Question: Is it required?

RESPONSE: Reference Addendum Item No.15.

5. REFERENCE: Drawing E-431

QUESTION: Zone B/7 Refer to Drawing E-103 for continuation. Drawing E-103 continuation is not shown. Please provide a Site Plan showing the continuation.

RESPONSE: Reference Addendum Item No. 16. The approximate distance between

this J-Box at Bldg. M7-407 and the center of Substation 119 is approximately 90-feet.

6. REFERENCE: Drawing E-432

QUESTION: Zone B/8 Refer to Drawing E-103 for continuation. Drawing E-103 continuation is not shown. Please provide a Site Plan showing the continuation.

RESPONSE: Reference Addendum Item No. 17. The approximate distance between this J-Box at Bldg. M7-407 and the center of Substation 119 is approximately 150-feet.

7. REFERENCE: Drawing E-436, Specific Note R

QUESTION: What is the height and depth of the existing MV Pull Box?

RESPONSE: 72-inches high and 16.25-inches deep (existing width is 27.875 inches).

8. REFERENCE: Drawing H-006

QUESTION: Transformer PCB's were not detected in (8) samples analyzed. Drawing E-001 General Note 9 states to test for PCB's. Since they have already been tested by the government is another test required?

RESPONSE: Yes. Reference Addendum Item No. 9.

9. REFERENCE: J-B-35 Unique Project Specific Requirements, Power Manhole Entry Safety Requirements, Para 1.3

QUESTION: How many manholes will totally de-energized?

RESPONSE: None. All manholes will have energized cables within the manhole.

10. REFERENCE: J-B-35 Unique Project Specific Requirements, Power Manhole Entry Safety Requirements, Para 1.5

QUESTION: Where the integrity of an existing feeder is suspect due to failure history, an engineering assessment shall be made and, if deemed necessary, the suspect section(s) of the cable shall be de-energized prior to entering a manhole/vault known to contain or assumed to contain the feeder.

a. Is the government providing this engineering assessment?

RESPONSE: Yes.

b. How will the contractor know if cables are suspect?

RESPONSE: The Government will advise the Contractor of any Orsino Substation supplied cable failures during the course of the project, and any determination regarding suspect cables.

11. REFERENCE: J-B-35 Unique Project Specific Requirements, Power Manhole Entry Safety Requirements, Para. 3.2.2.

QUESTION: An engineering review of the feeder circuit and manhole documentation shall confirm that there are no remaining energized cables. Is the government providing this engineering review?

RESPONSE: Yes. The review will be supplied to the Contractor.

12. REFERENCE: J-B-35 Unique Project Specific Requirements, Power Manhole Entry Safety Requirements, Para. 3.2.3.

QUESTION: The switching order shall be reviewed by the project electrical engineer.

a. Who is providing the project electrical engineer?

RESPONSE: Government engineers will review the switching order and the switching order will also be provided to the Contractor.

b. Para. 3.2.6 who verifies the loads are off after switching?

RESPONSE: The Government with Contractor witness.

c. Is an energized work permit required for visual inspections and ground checks?

RESPONSE: No, but a confined space entry permit and job hazard analysis is required.

d. What are the sizes of the manholes?

RESPONSE: Manhole sizes vary widely. For bidding purposes regarding materials to be provided assume: MHP-1 and MHP-9 are 25-feet by 25-feet. All others assume 12-feet by 12-feet.

13. REFERENCE: RECORD OF MANHOLE LATEST CONFIGURATION

QUESTION: What type of labeling is required on the manhole walls?

RESPONSE: None; provide labeled photographs. Reference project solicitation specific requirement J-B-36 Sub Section RECORD OF MANHOLE LATEST CONFIGURATION.

14. REFERENCE: Kennedy NASA Procedural Requirements KNPR 8715.7

QUESTION: Paragraphs 3.5.5 Shock Hazard Analyses and 3.5.6 Flash Hazard Analyses and Arc Flash PPE. Is this requirement to be provided by a Florida Registered Professional Engineer?

RESPONSE: No. Requirement must be provided by an electrical safety professional and will be reviewed by the Government. However, an individual with PE registration in any state would be acceptable.

15. REFERENCE: J-B-27 RECYCLING AND SALVAGING MATERIALS

QUESTION: J-B-27 RECYCLING AND SALVAGING MATERIALS states that the cable will become the contractor's property for salvage. If the PILC Cable results indicate represent a PCB Hazard will the government provide equitable payment to the contractor for lost salvage costs?

RESPONSE: Yes. Salvage value will be based on material value at the time of contractor proposal submission.

16. REFERENCE: Drawing S-401, Detail 1

QUESTION: A note exists to provide underpinning with an arrow drawn to a dashed line.

a. We believe the arrow should point at the gravel retaining wall, is this correct?

RESPONSE: No. The underpinning is to provide protection for building spread footing during construction and installation of the electrical conduits.

b. We will not be undermining the gravel retaining wall; can the underpinning PE design be eliminated?

RESPONSE: No, see response No. 16 a. above.

17. REFERENCE: Drawing E-001, General Note 26 Asbestos Containing Material

QUESTION: At this time we do not know if asbestos is present in any of the manholes. Could we provide a line item cost for asbestos abatement in a single manhole? (This could save a considerable amount of money)

RESPONSE: Based on previously completed work, asbestos in manholes is not anticipated. If asbestos abatement (and Orangeburg duct) is required, it will be handled as a contract change.

18. REFERENCE: N/A

QUESTION: Is there a requirement for Surveying duct banks, manholes, directional drilling and the site work on the C drawings?

RESPONSE: Yes, Reference Addendum Items No. 29 and 30.

19. REFERENCE: Spec Section J-B-25, PCB Management

QUESTION: Specifically where is the Ransom Road Material Yard located in relation to the jobsite?

RESPONSE: Reference Sheet V-002 location map. The Ransom Road yard is located at the South-West extremity of the location map. It is approximately 4 miles from the Industrial Area Chiller Plant M7-407.

20. REFERENCE: Spec section J-B-27, Recycling and Salvage

QUESTION: Where is the Schwartz road Landfill?

RESPONSE: Reference Sheet V-002 location map. The Schwartz Road yard is located near the center of the North-extremity of the location map. It is approximately 7 miles from the Industrial Area Chiller Plant M7-407.

21. REFERENCE: Spec Section J-B-11 TEMPORARY CONSTRUCTION TRAILERS

QUESTION: Specifically where will the contractor laydown area located in relation to the jobsite?

RESPONSE: Construction trailer and lay down area is anticipated to be within 1-mile of the Industrial Area Chiller Plant (M7-407).

22. REFERENCE: Spec Section J-B-21 ORANGEBURG DUCTWORK.

QUESTION: Can the Govt. identify which of the existing/to be used and existing/to be demolished ductbanks are of orangeburg pipe construction?

RESPONSE: Based on previously completed work Orangeburg duct work is not anticipated. If Orangeburg duct abatement is required, it will be handled as a contract change.

23. REFERENCE: Drawing Sheet #E-511 and E-513, 33.70.02.00.20, 2.5

QUESTION: Please verify that pre-cast structures (manholes and outdoor equipment pads) are acceptable in lieu of cast-in-place structures.

RESPONSE: Reference Addendum Item No. 8.

24. REFERENCE: Solicitation section C.2, Addenda to Specifications and Drawings

QUESTION: Item #24 directs us to replace paragraph 2.4.5 with new paragraph. New paragraph refers only to 500MCM 5kV cable omitting any reference to 5kV 4/0 AWG and 350MCM cables. Shouldn't the direction be to supplement the existing paragraph 2.4.5 instead of replacing it?

RESPONSE: No. Refer to Sheet 36 (E-004). For 5 kV cables, concentric neutral construction is only required for Cables 61, 62, 63 and 65. Other 5 kV cables have a separate equipment ground conductor installed with the medium voltage power circuit conductors.

25. REFERENCE: Drawing Sheets #E-511, E-512 & E-513, Spec Section 33.71.02.00.20, 3.3.1 & 3.3.5

QUESTION: Where underground ducts transition to aboveground protected locations (into transformers, cabinets and switchgear, are PVC sweep elbows acceptable, or are RGS (or PVC/RGS) elbows required?

RESPONSE: PVC sweep elbows are acceptable outdoors and underground where they are protected by metal enclosures.

26. REFERENCE: Spec Section 33.71.02.00.20, 3.4 Cable Pulling

QUESTION: To clarify, cables passing through manholes are required to wrap to sides of manhole, taking longest path to exit, but not requiring at least a full (360+ degree) wrap inside manholes?

RESPONSE: Yes

27. REFERENCE: Davis Bacon Wages

QUESTION: Regarding wage determination: Would all medium voltage work be considered "line construction" (as opposed to "Electricians" rate) or does "line construction" apply only to overhead distribution?

RESPONSE: Contact the below union representatives to determine above distinctions:

Electrician Representative: Dan Hunt at 386-232-6079
Line Construction: Bill Hitt at 352-303-8981

28. REFERENCE: Davis Bacon Wages

QUESTION: Electrician rates ELEC-0756-001 12/31/2012 has fringes shown in a different format than what we normally see “Cable Splicer..... Rates = \$25.90 Fringes = 5.50% + 8.50”. Yet in the Line Construction heading, ELEC-0222-001 10/15/2012, it is shown as “Cable Splicer..... Rates = \$31.66 Fringes = 5.00 + 23%”. Can you verify the fringes for Electrician?

RESPONSE: See response to bidder’s question No. 27 above.

29. REFERENCE: Specifications Section 02 82 33.13 20 item 1.3.1 Description of Work

QUESTION: Remove/control lead-based paint/ paint with lead as indicated on the drawings. This leads us to infer that lead abatement procedures would be expected as part of the project scope, however we have not found any such indication/direction for any paint removal on the project drawings. Are there instructions for paint removal on the plans that we might have missed, or is paint removal just a contingency that we should prepare for, just in case?

RESPONSE: Contaminated paint or paint not sampled must be considered hazardous and appropriate worker and environmental protection applies. Contractor shall provide all needed procedures for worker protection, paint removal and disposal. The only paint removal required is that necessary to perform the demolition or installation work, and the installation method must not generate paint dust or fumes (no drilling or hole saws).

30. REFERENCE: Spec Section J-A-8

QUESTION: Who pulls the NPDES Construction Stormwater & Environmental Resources Permit?

RESPONSE: A NPDES permit is not required for this project. If that changes, NASA will obtain the permit.

31. REFERENCE: Spec Section 02.41.00, 3.2.2.a

QUESTION: Demolished PILC cable is to be tested for PCBs prior to release of cable to contractor. Is this testing to be accomplished by the contractor or by the Govt.?

RESPONSE: Reference Addendum Item No. 21.

32. REFERENCE: Spec Section 02 82 13.00 98,

QUESTION: Just to clarify, item 1.1 states “No asbestos abatement work is in the contract scope.”

- a. So, other than awareness and avoidance, asbestos related issues are not expected. Is this correct?

RESPONSE: Yes

- b. In the eventuality that abatement work is judged necessary, the contractor is to stop work pending an asbestos abatement contract change. Is this correct as well?

RESPONSE: Yes. Work stoppage will be limited to the area affected by the asbestos abatement.

33. REFERENCE: Drawing Sheets #H-001 thru H-006.

QUESTION: According to testing results in the appendices, the transformer oil is expected to be PCB free, although the exterior paint of SS-B, SS-C and SS-EE has been PCB contaminated. Is this correct?

RESPONSE: Yes, but refer to specific equipment identified by Flag Note C on Sheet H-005 that has PCB contaminated paint. Also, reference Addendum Items No. 9 and 22.

34. REFERENCE: Synopsis

QUESTION: The synopsis states “The acquisition shall be conducted as a 100% small business set-aside.”, will the Government consider a large business.

RESPONSE: No